

ABSTRACT

The invention relates to substituted 9a-N-[N'(benzenesulfonyl)carbamoyl]-γ-aminopropyl] and 9a-N-[N'-(β-cyanoethyl)-N'-(benzenesulfonyl)carbamoyl]-γ-aminopropyl] derivatives of 9-deoxo-9-dihydro-9a-aza-9a-homoerythromycin A and 5-O-desosaminy-9-deoxo-9-dihydro-9a-aza homoerythronolide A, novel semisynthetic macrolide antibiotics of the azalide series, of formula (1) wherein R represents H or cladinosyl group, R¹ represents H or β-cyanoethyl group and R² represents a substituent selected from the group consisting of H, fluoro, chloro and methyl group, or a pharmaceutically acceptable salt thereof with inorganic or organic acids, to the process for the preparation of pharmaceutical compositions as well as to the use for sterilization rooms and medical instruments as well as for protection of wall and wooden coatings.